

WHAT IS CLAIMED IS:

1. A method for transforming an XML document structured according to a set of XML grammar rules into at least one XML document structured according to at least one subset of the set of XML grammar rules, the method comprising the steps of:

5 retrieving at least one grammar restriction style sheet (GRSS) corresponding to the at least one subset of a set of XML grammar rules, where the at least one GRSS includes transformation rules for transforming the XML document to the at least one XML document structured according to the at least one subset of the set of XML

10 grammar rules; and

transforming data elements of the XML document using the transformation rules of the at least one retrieved GRSS to data elements structured according to the at least one subset of the set of XML grammar rules to transform the XML document to the at least one XML document structured according to the at least one subset of the set of

15 XML grammar rules.

2. The method according to claim 1, wherein the steps of retrieving and transforming are performed by a server having an XML grammar restrictor module and an Extensible Style Language Transformation (XSLT) engine.

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3. The method according to claim 2, wherein the XML grammar restrictor module and the XSLT engine form an XML grammar restrictor.

4. The method according to claim 3, wherein the XML grammar restrictor is stored within on at least one computer readable medium.

5. The method according to claim 1, wherein the step of retrieving at least 5 one GRSS includes the step of accessing a database of GRSSs.

6. The method according to claim 1, wherein the step of retrieving at least one grammar restriction style sheet (GRSS) corresponding to the at least one subset of a set of XML grammar rules includes the steps of:

10 determining at least one destination device for the XML document; determining for the at least one destination device a corresponding subset of the XML grammar rule set; and retrieving a GRSS corresponding to the corresponding subset of the XML grammar rule set.

15 7. The method according to claim 6, wherein the step of determining for the at least one destination device a corresponding subset of the XML grammar rule set includes the step of using a look-up table to correlate the at least one destination device with the corresponding subset of the XML grammar rule set.

20 8. The method according to claim 6, wherein the step of retrieving a GRSS corresponding to the corresponding subset of the XML grammar rule set includes the step

of using a look-up table to correlate the corresponding subset of the XML grammar rule set with the GRSS.

9. The method according to claim 1, wherein the step of using the
5 transformation rules of each retrieved GRSS for transforming data elements of the XML document includes the steps of:

identifying data elements of the XML document that are not structured according to grammar rules of the at least one subset of the set of XML grammar rules; and

transforming the identified data elements into data elements that are structured
10 according to grammar rules of the at least one subset of the set of XML grammar rules.

10. A system for transforming an XML document for transforming an XML document structured according to a set of XML grammar rules into at least one XML document structured according to at least one subset of the set of XML grammar rules,

15 the system comprising:

a controller capable of executing a set of programmable instructions for retrieving at least one grammar restriction system sheet (GRSS) corresponding to at least one subset of a set of XML grammar rules, where the at least one GRSS includes transformation rules for transforming an XML document to at least one XML document structured

20 according to the at least one subset of the set of XML grammar rules; and

a transformation engine for using the transformation rules of each retrieved GRSS for transforming data elements of the XML document to data elements structured according to the at least one subset of the set of XML grammar rules to transform the

XML document to the at least one XML document structured according to the at least one subset of the set of XML grammar rules.

11. The system according to claim 10, wherein the controller is located within
5 a server having an XML grammar restrictor module and an Extensible Style Language Transformation (XSLT) engine.

12. The system according to claim 11, wherein the XML grammar restrictor module and the XSLT engine form an XML grammar restrictor.

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13. The system according to claim 12, wherein the XML grammar restrictor is stored within at least one computer readable medium.

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14. The system according to claim 10, wherein the at least one GRSS is retrieved from a database of GRSSs.

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15. The system according to claim 10, wherein the controller comprises:
means for determining at least one destination device for the XML document;
means for determining for the at least one destination device a corresponding subset of the XML grammar rule set; and
means for retrieving a GRSS corresponding to the corresponding subset of the XML grammar rule set.

16. The system according to claim 15, wherein the means for determining for the at least one destination device a corresponding subset of the XML grammar rule set comprises means for using a look-up table to correlate the at least one destination device with the corresponding subset of the XML grammar rule set.

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17. The system according to claim 15, wherein the means for retrieving a GRSS corresponding to the corresponding subset of the XML grammar rule set comprises means for using a look-up table to correlate the corresponding subset of the XML grammar rule set with the GRSS.

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18. The system according to claim 10, wherein the transformation engine comprises:

means for identifying data elements of the XML document that are not structured according to grammar rules of the at least one subset of the set of XML grammar rules;

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means for transforming the identified data elements into data elements that are structured according to grammar rules of the at least one subset of the set of XML grammar rules.

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19. A grammar restrictor for transforming a document structured according to a set of grammar rules into at least one document structured according to at least one subset of the set of grammar rules, the grammar restrictor comprising:

a software module for retrieving at least one grammar restriction style sheet corresponding to the at least one subset of the set of grammar rules, where the at least one style sheet includes transformation rules for transforming the document to the at least one document structured according to the at least one subset of the set of grammar rules; and

5 a software module for providing the retrieved at least one style sheet to a transformation engine for transforming data elements of the document using the transformation rules of the at least one retrieved style sheet to data elements structured according to the at least one subset of the set of grammar rules to transform the document to the at least one document structured according to the at least one subset of the set of
10 grammar rules.

20. The grammar restrictor according to claim 19, wherein the grammar restrictor is stored within at least one computer readable medium.

15 21. The grammar restrictor according to claim 19, wherein the at least one retrieved style sheet sets forth XML transformation rules for transforming an XML document structured according to a set of XML grammar rules into at least one document structured according to at least one subset of the set of XML grammar rules.